

SEQUENCE LISTING

<110> BEASLEY, Ellen et al

<120> ISOLATED HUMAN PHOSPHATASE PROTEINS,
NUCLEIC ACID MOLECULES ENCODING HUMAN PHOSPHATASE PROTEINS,
AND USES THEREOF

<130> CL001219DIV

<140> To Be Assigned

<141> 09-30-2003

<150> 09/822,871

<151> 04-02-2001

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His Glu His Glu Thr Asp Thr Ile Tyr Tyr Lys Asn Ile Ser Gly Phe	1285	1290	1295
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Asn Met Gln Cys Met Ala Thr Ser Trp Gln Ser Val Leu Val Lys Trp	1345	1350	1355
Asp Pro Pro Lys Lys Ala Asn Gly Ile Ile Thr Gln Tyr Met Val Thr	1365	1370	1375
Val Glu Arg Asn Ser Thr Lys Val Ser Pro Gln Asp His Met Tyr Thr	1380	1385	1390
Phe Ile Lys Leu Leu Ala Asn Thr Ser Tyr Val Phe Lys Val Arg Ala	1395	1400	1405
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Leu Pro Glu Thr Val Pro Ser Val Pro Thr Asn Ile Ala Phe Ser Asp	1425	1430	1435
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Lys Cys Lys Glu Trp Glu Ser Glu Glu Cys Val Glu Tyr Gln Lys Ile	1475	1480	1485
Gln Tyr Leu Tyr Glu Ala His Leu Thr Glu Glu Thr Val Tyr Gly Leu	1490	1495	1500
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          20          25          30
Thr Leu Ser Ser Val Ser Ala Thr Thr Tyr Ser Ser Pro Val Ser Arg
          35          40          45
Thr Leu Ala Thr Asn Val Thr Lys Pro Gly Pro Pro Val Phe Leu Ala
          50          55          60
Gly Glu Arg Val Gly Ser Ala Gly Ile Leu Leu Ser Trp Asn Thr Pro
65          70          75          80
Pro Asn Pro Asn Gly Arg Ile Ile Ser Tyr Val Val Lys Tyr Lys Glu
          85          90          95
Val Cys Pro Trp Met Gln Thr Ala Tyr Thr Arg Ala Arg Ala Lys Pro
          100          105          110
Asp Ser Leu Glu Val Leu Leu Thr Asn Leu Asn Pro Gly Thr Thr Tyr
          115          120          125
Glu Ile Lys Val Ala Ala Glu Asn Asn Ala Gly Ile Gly Val Phe Ser
          130          135          140
Asp Pro Phe Leu Phe Gln Thr Ala Glu Ser Ala Pro Gly Lys Val Val
145          150          155          160
Asn Leu Thr Val Glu Ala Leu Asn Tyr Ser Ala Val Asn Leu Ile Trp
          165          170          175
Tyr Leu Pro Arg Gln Pro Asn Gly Lys Ile Thr Ser Phe Lys Ile Ser
          180          185          190
Val Lys His Ala Arg Ser Gly Ile Val Val Lys Asp Val Ser Leu Arg
          195          200          205
Val Glu Asp Ile Leu Ser Gly Lys Leu Pro Glu Cys Asn Glu Asn Ser
          210          215          220
Glu Ser Phe Leu Trp Ser Thr Thr Ser Pro Ser Pro Thr Leu Gly Arg
225          230          235          240

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His	Leu	Arg	Pro	Tyr	Thr	Thr	Tyr	Leu	Phe	Glu	Val	Ser	Ala	Val	Thr	
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Thr	Glu	Ala	Gly	Tyr	Ile	Asp	Ser	Thr	Ile	Val	Arg	Thr	Pro	Glu	Ser	
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Leu	Thr	Gly	Gln	Asp	Glu	Ser	Ile	Ser	Asn	Pro	Met	Ser	Pro	Glu	Ile	
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Met	Asn	Leu	Val	Asp	Pro	Met	Ile	Gly	Phe	Tyr	Glu	Gly	Ser	Gly	Glu	
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Met	Ser	Ser	Asp	Leu	His	Ser	Pro	Ala	Ser	Phe	Ile	Tyr	Asn	Ser	His	
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Pro	His	Asn	Asp	Phe	Pro	Ala	Ser	Thr	Arg	Ala	Glu	Glu	Gln	Ser	Ser	
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Pro	Val	Val	Thr	Thr	Arg	Asn	Gln	Tyr	Met	Thr	Asp	Ile	Thr	Ala	Glu	
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Leu	Thr	Val	Arg	Thr	Arg	Glu	Gln	Val	Pro	Ser	Ser	Ile	Gln	Ile	Ile	
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Asn	Tyr	Lys	Asn	Ile	Ser	Ser	Ser	Ser	Ile	Leu	Leu	Tyr	Trp	Asp	Pro	
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Pro	Glu	Tyr	Pro	Asn	Gly	Lys	Ile	Thr	His	Tyr	Thr	Ile	Tyr	Ala	Thr	
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Glu	Leu	Asp	Thr	Asn	Arg	Ala	Phe	Gln	Met	Thr	Thr	Val	Asp	Asn	Ser	
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Phe	Leu	Ile	Thr	Gly	Leu	Lys	Lys	Tyr	Thr	Arg	Tyr	Lys	Met	Arg	Val	
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Ala	Ala	Ser	Thr	His	Val	Gly	Glu	Ser	Ser	Leu	Ser	Glu	Glu	Asn	Asp	
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Ile	Phe	Val	Arg	Thr	Pro	Glu	Asp	Glu	Pro	Glu	Ser	Ser	Pro	Gln	Asp	
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Gln Asn Ala Asp Thr	Leu Phe Val Lys Asn Thr	Ser Thr Thr Asp Ile		
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Tyr Lys Asn Ile Ser	Ser Gly Glu Ile Glu Ile Ser	Phe Leu Pro Pro		
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Thr Ile Gly Gly Leu	Lys Lys Tyr Thr His Tyr Val	Ile Glu Val Ser		
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Ala Ser Thr Leu Lys	Gly Glu Gly Ile Arg Ser Arg	Pro Ile Ser Ile		
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Leu Thr Glu Glu Asp	Ala Pro Asp Ser Pro Pro	Gln Asn Phe Ser Val		
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Lys Gln Leu Ser Gly	Val Thr Val Met Leu Ser Trp	Gln Pro Pro Leu		
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Asp Leu Asp Tyr Asn	Val Asp Tyr Gly Ala Cys Val	Thr Ala Ser Thr		
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Arg Phe Gly Asp Gly	Asn Ala Arg Ser Ser Ile Ile	Asn Phe Arg Thr		
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 Ser Thr Leu Pro Glu Thr Val Pro Ser Ala Pro Thr Asn Val Ala Phe
 1425 1430 1435 1440
 Ser Asn Val Gln Ser Thr Ser Ala Thr Leu Thr Trp Thr Lys Pro Asp
 1445 1450 1455
 Thr Ile Phe Gly Tyr Phe Gln Asn Tyr Lys Ile Thr Thr Gln Leu Arg
 1460 1465 1470
 Ala Gln Lys Cys Arg Glu Trp Glu Pro Glu Glu Cys Ile Glu His Gln
 1475 1480 1485
 Lys Asp Gln Tyr Leu Tyr Glu Ala Asn Gln Thr Glu Glu Thr Val His
 1490 1495 1500
 Gly Leu Lys Lys Phe Arg Trp Tyr Arg Phe Gln Val Ala Ala Ser Thr
 1505 1510 1515 1520
 Asn Val Gly Tyr Ser Asn Ala Ser Glu Trp Ile Ser Thr Gln Thr Leu
 1525 1530 1535
 Pro Gly Pro Pro Asp Gly Pro Pro Glu Asn Val His Val Val Ala Thr
 1540 1545 1550
 Ser Pro Phe Gly Ile Asn Ile Ser Trp Ser Glu Pro Ala Val Ile Thr
 1555 1560 1565
 Gly Pro Thr Phe Tyr Leu Ile Asp Val Lys Ser Val Asp Asp Asp Asp
 1570 1575 1580
 Phe Asn Ile Ser Phe Leu Lys Ser Asn Glu Glu Asn Lys Thr Thr Glu
 1585 1590 1595 1600
 Ile Asn Asn Leu Glu Val Phe Thr Arg Tyr Ser Val Val Ile Thr Ala

	1605		1610		1615
Phe Val Gly Asn Val Ser Arg Ala Tyr Thr Asp Gly Lys Ser Ser Ala					
	1620		1625		1630
Glu Val Ile Ile Thr Thr Leu Glu Ser Val Pro Lys Asp Pro Pro Asn					
	1635		1640		1645
Asn Met Thr Phe Gln Lys Ile Pro Asp Glu Val Thr Lys Phe Gln Leu					
	1650		1655		1660
Thr Phe Leu Pro Pro Ser Gln Pro Asn Gly Asn Ile Arg Val Tyr Gln					
1665		1670		1675	1680
Ala Leu Val Tyr Arg Glu Asp Asp Pro Thr Ala Val Gln Ile His Asn					
	1685		1690		1695
Phe Ser Ile Ile Gln Lys Thr Asp Thr Ser Ile Ile Ala Met Leu Glu					
	1700		1705		1710
Gly Leu Lys Gly Gly His Thr Tyr Asn Ile Ser Val Tyr Ala Ile Asn					
	1715		1720		1725
Ser Ala Gly Ala Gly Pro Lys Val Gln Met Arg Ile Thr Met Asp Ile					
	1730		1735		1740
Lys Ala Pro Ala Arg Pro Lys Ser Lys Pro Ile Pro Ile Arg Asp Ala					
1745		1750		1755	1760
Thr Gly Lys Leu Leu Val Thr Ser Thr Thr Ile Thr Ile Arg Met Pro					
	1765		1770		1775
Ile Cys Tyr Tyr Asn Asp Asp His Gly Pro Ile Arg Asn Val Gln Val					
	1780		1785		1790
Leu Val Ala Glu Thr Gly Ala Gln Gln Asp Gly Asn Val Thr Lys Trp					
	1795		1800		1805
Tyr Asp Ala Tyr Phe Asn Lys Ala Arg Pro Tyr Phe Thr Asn Glu Gly					
	1810		1815		1820
Phe Pro Asn Pro Pro Cys Ile Glu Gly Lys Thr Lys Phe Ser Gly Asn					
1825		1830		1835	1840
Glu Glu Ile Tyr Val Ile Gly Ala Asp Asn Ala Cys Met Ile Pro Gly					
	1845		1850		1855
Asn Glu Glu Lys Ile Cys Asn Gly Pro Leu Lys Pro Lys Lys Gln Tyr					
	1860		1865		1870
Leu Phe Lys Phe Arg Ala Thr Asn Val Met Gly Gln Phe Thr Asp Ser					
	1875		1880		1885
Glu Tyr Ser Asp Pro Ile Lys Thr Leu Gly Glu Gly Leu Ser Glu Arg					
	1890		1895		1900
Thr Val Glu Ile Ile Leu Ser Val Thr Leu Cys Ile Leu Ser Ile Ile					
1905		1910		1915	1920
Leu Leu Gly Thr Ala Ile Phe Ala Phe Val Arg Ile Arg Gln Lys Gln					
	1925		1930		1935
Lys Glu Gly Gly Thr Tyr Ser Pro Arg Asp Ala Glu Ile Ile Asp Thr					
	1940		1945		1950
Lys Phe Lys Leu Asp Gln Leu Ile Thr Val Ala Asp Leu Glu Leu Lys					
	1955		1960		1965
Asp Glu Arg Leu Thr Arg Leu Leu Ser Tyr Arg Lys Ser Ile Lys Pro					
	1970		1975		1980
Ile Ser Lys Lys Ser Phe Leu Gln His Val Glu Glu Leu Cys Thr Asn					
1985		1990		1995	2000
Ser Asn Leu Lys Phe Gln Glu Glu Phe Ser Glu Leu Pro Lys Phe Leu					
	2005		2010		2015
Gln Asp Leu Ser Ser Thr Asp Ala Asp Leu Pro Trp Asn Arg Ala Lys					
	2020		2025		2030
Asn Arg Phe Pro Asn Ile Lys Pro Tyr Asn Asn Asn Arg Val Lys Leu					
	2035		2040		2045
Ile Ala Asp Val Ser Leu Pro Gly Ser Asp Tyr Ile Asn Ala Ser Tyr					
	2050		2055		2060

Val Ser Gly Tyr Leu Cys Pro Asn Glu Phe Ile Ala Thr Gln Gly Pro			
2065	2070	2075	2080
Leu Pro Gly Thr Val Gly Asp Phe Trp Arg Met Val Trp Glu Thr Arg			
	2085	2090	2095
Thr Lys Thr Leu Val Met Leu Thr Gln Cys Phe Glu Lys Gly Arg Ile			
	2100	2105	2110
Arg Cys His Gln Tyr Trp Pro Glu Asp Asn Lys Pro Val Thr Val Phe			
	2115	2120	2125
Gly Asp Ile Val Ile Thr Lys Leu Met Glu Asp Ile Gln Ile Asp Trp			
	2130	2135	2140
Thr Ile Arg Asp Leu Lys Ile Glu Arg His Gly Asp Cys Met Thr Val			
	2145	2150	2155
Arg Gln Cys Asn Phe Thr Gly Trp Pro Glu His Gly Val Pro Glu Asn			
	2165	2170	2175
Thr Thr Pro Leu Ile His Phe Val Lys Leu Val Arg Thr Ser Arg Ala			
	2180	2185	2190
His Asp Thr Thr Pro Met Val Val His Cys Ser Ala Gly Val Gly Arg			
	2195	2200	2205
Thr Gly Val Phe Ile Ala Leu Asp His Leu Thr Gln His Ile Asn Asn			
	2210	2215	2220
His Asp Phe Val Asp Ile Tyr Gly Leu Val Ala Glu Leu Arg Ser Glu			
	2225	2230	2235
Arg Met Cys Met Val Gln Asn Leu Ala Gln Tyr Ile Phe Leu His Gln			
	2245	2250	2255
Cys Ile Leu Asp Leu Leu Ser Asn Lys Gly Gly His Gln Pro Val Cys			
	2260	2265	2270
Phe Val Asn Tyr Ser Thr Leu Gln Lys Met Asp Ser Leu Asp Ala Met			
	2275	2280	2285
Glu Gly Asp Val Glu Leu Glu Trp Glu Glu Thr Thr Met			
	2290	2295	2300